(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 14 April 2005 (14.04.2005)

PCT

(10) International Publication Number WO 2005/032316 A1

(51) International Patent Classification7:

A47J 31/44

(21) International Application Number:

PCT/IT2003/000598

(22) International Filing Date: 6 October 2003 (06.10.2003)

(25) Filing Language:

Italian

(26) Publication Language:

English

(71) Applicants and

Credaro (IT).

- (72) Inventors: DI GIAMPAOLO, Fabrizia [IT/IT]; Via Pedenaga 23/C, I-25050 Rodengo Saiano (IT). MARCHESI, Gianbattista [IT/IT]; Via Don Luigi Monti 6, I-24060
- (74) Agents: CRIPPA, Paolo, Ernesto et al.; Jacobacci & Partners S.p.A, Piazzale Arnaldo 2, I-25121 Brescia (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE

(utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

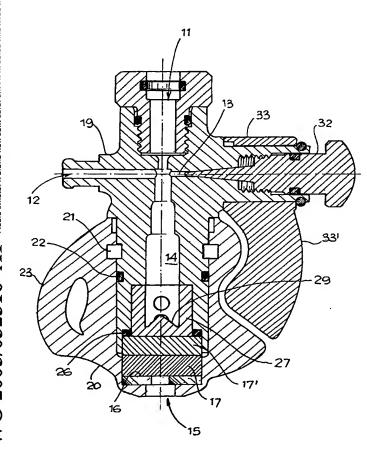
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE FOR PRODUCING A STERILISABLE HEATED EMULSION OF MILK AND AIR



(57) Abstract: The present invention relates to a device intended to produce a heated emulsion of a liquid, in particular milk, with air. The device comprises a body (10) in which there are obtained steam inlet, a drink inlet (12), an air inlet (13) and a mixing chamber (14) communicating with said inlets and with an emulsion delivery hole (15). Between the mixing chamber (14) and the delivery hole (15) there are provided valve means (17, 17') capable of rotating between an open position, adapted for placing the mixing chamber (14) in fluid communication with the delivery hole (15), and a closed position of said mixing chamber, in which the steam jet is forced to exit from the body (10) passing through the air and drink inlets (12, 13), to sterilise the device.